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PN - JP2001087117 A 20010403
 TI - **CARPET** AND NON-SLIP IMPLEMENT
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 PA - HASETORA SPINNING CO LTD
 IN - HASE KAZUHARU
 PD - 2001-04-03
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 DT - I

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AN - 2001-332273 [35]
 TI - **CARPET** for spreading over room floor surface, has antiskid tool having surface fastener detachably fixed to **carpet** bottom layer
 AB - JP2001087117 NOVELTY - An antiskid tool (10) is provided at the bottom layer (5) of the **carpet**, and includes a surface fastener (12). The surface fastener includes a lower **felt** layer (7) and a contact piece (13), and is detachably fixed to the **carpet** bottom layer. An antiskid surface (14), formed with minute recesses (17) and contact surfaces (19), are formed at the bottom of the contact piece.
 - DETAILED DESCRIPTION - An INDEPENDENT CLAIM is also included for the antiskid tool.
 - USE - For spreading over room floor surface.
 - ADVANTAGE - Improves antiskid performance of **carpet**. Simplifies attachment and detachment of antiskid tool to and from **carpet** bottom layer.
 - DESCRIPTION OF DRAWING(S) - The figure shows the partial cross-sectional views of the **carpet**.
 - Bottom layer 5
 - Lower **felt** layer 7
 - Antiskid tool 10
 - Surface fastener 12
 - Contact piece 13
 - Antiskid surface 14
 - Minute recesses 17
 - Contact surfaces 19
 - (Dwg.4/6)
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 PA - (HASE-N) HASEKO BOSEKI KK
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 IW - **CARPET** SPREAD ROOM FLOOR SURFACE ANTISKID TOOL SURFACE FASTEN DETACH FIX
CARPET BOTTOM LAYER
 OPD - 1999-09-20
 ORD - 2001-04-03

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 TI - **CARPET** AND NON-SLIP IMPLEMENT
 AB - PROBLEM TO BE SOLVED: To facilitate the connection of respective **tile carpets**, to enhance a non-slip function, to simplify the attachment and detachment structure of non-slip Implements 10 and to facilitate the manipulation to attach and detach the non-slip Implements 10.

- SOLUTION: Non-slip means S existing on the lower side of a laminate 5 consist of joined bodies (lower  layers 7) of hook-and-loop fasteners 12 disposed on the lower side of the laminate 5 and the non-slip implements 10 provided with non-slip surfaces 14 on the lower side of the joined body 13 of the hook-and-loop fasteners 12. The non-slip surfaces 14 are molded of a special synthetic resin having flexibility to the extent that the surfaces recess slightly. The surfaces have a multiplicity of microrecesses 17 and microgaps 18 within the microrecesses 17. Contact surfaces 19 formed around the microgaps 18 and the inside surfaces 17a of the microrecesses 17 are the attraction contact surfaces of the non-slip surfaces 14. The non-slip implements 10 are attachably and detachably mounted to the lower side of the laminate 5 by means of their hook-and-loop fasteners 12.

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A cross-sectional view of a multi-layered structure 10 (S). The structure consists of a top layer 2, which includes a series of vertical, wavy, finger-like projections 4. Below the top layer 2 is a layer 3, followed by a layer 6. Below layer 6 is a layer 8, which is part of a group of layers 5. Below layer 8 is a layer 7, which is part of a group of layers 12. Below layer 7 is a layer (S), which is part of a group of layers 10 (S). The bottom layer 14 is a thin, horizontal layer. A dashed line P is shown at the bottom of the structure. A label 15 points to the bottom layer 14.

A cross-sectional view of a multi-layered structure. It consists of a top layer (7) and a bottom layer (13), both indicated by brackets. Between these layers is a central region (12) containing a wavy, textured layer (15). The wavy layer (15) is further divided into two sub-regions, 7a and 15a, also indicated by brackets. The entire structure is shown within a frame defined by diagonal lines on the left and right sides.